

**ABSTRACT**

The gradation display device contains gradient detecting circuit (3) for detecting a gradient of gradation values of pixels in an incoming image; time-varying gradation-value detecting circuit (4) for detecting changes in gradation values of the pixels with a passage of time; an image detector for detecting a magnitude and a direction of movement of the incoming image according to outputs from gradient detecting circuit (3) and time-varying gradation-value detecting circuit (4); and gradation correcting circuit (12) for correcting signals of the incoming image according to the detected magnitude and direction of the image and the weight of luminance assigned to each of the sub-fields so as to display proper image.

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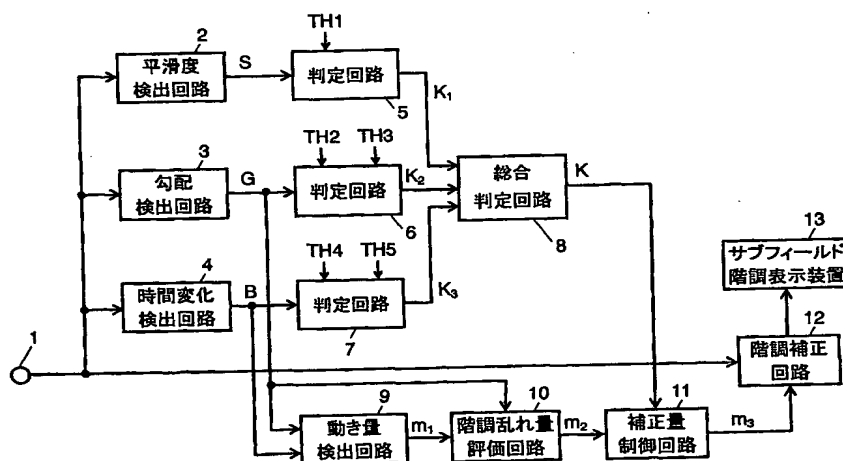
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(54) Title: GRAY SCALE DISPLAY DEVICE

(54) 発明の名称: 階調表示装置



- 2...SMOOTHING DEGREE DETERMINING CIRCUIT  
5...DECISION CIRCUIT  
3...GRADIENT DETERMINING CIRCUIT  
6...DECISION CIRCUIT  
8...INTEGRATED DECISION CIRCUIT  
4...TIME VARIATION DETERMINING CIRCUIT  
7...DECISION CIRCUIT  
9...MOTION AMOUNT DETERMINING CIRCUIT  
10...GRAY SCALE IRREGULARITY AMOUNT EVALUATING CIRCUIT  
11...CORRECTION AMOUNT CONTROL CIRCUIT  
12...GRAY SCALE CORRECTION CIRCUIT  
13...SUB-FIELD GRAY SCALE DISPLAY DEVICE

(57) Abstract: There are included a gradient determining circuit (3) for determining the gradients, in a screen, of gray scale values of pixels in an input image; a time variation determining circuit (4) for determining the degree of variation of the gray scale values of the pixels relative to time; means for determining both the

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